

Notice of Allowability

Application No.

09/915,311

Examiner

Michael C. Maskulinski

Applicant(s)

KIYOI ET AL.

Art Unit

2113

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to After Final amendment filed 8/31/05.
2. ☒ The allowed claim(s) is/are 3 and 5-11.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

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Reasons for Allowance

1. Claims 3, and 5-11 are allowed.
2. The following is a statement of reasons for the indication of allowable subject matter:

Referring to claim 3, the prior art does not teach or reasonably suggest wherein when occurrence of a failure in the computer system is detected, content of an area in the main storage, which has not been associated with the virtual storage by the address translation table, is stored in a given area in the auxiliary storage.

Referring to claim 5, the prior art does not teach or reasonably suggest a means for transferring content of the virtual-storage area from the main storage to the auxiliary storage according to the address translation table when occurrence of a failure in the computer system is detected in combination with the other limitations of the claim.

Referring to claim 6, the prior art does not teach or reasonably suggest storing the content of the virtual-storage area, which has been updated since the virtual-storage area was allocated to the main storage, in the first auxiliary storage according to the address translation table when occurrence of a failure in the computer system is detected in combination with the other limitations of the claim.

Referring to claim 7, the prior art does not teach or reasonably suggest storing content in each area of the plurality of pieces of virtual storage, which has been updated since the area of the virtual storage was allocated to the main storage, in the first auxiliary storage according to the address translation table when occurrence of a failure in the computer system is detected in combination with the other limitations of the claim.

Art Unit: 2113

Referring to claims 8 and 9, the prior art does not teach or reasonably suggest restoring the address translation table, which has been saved in the first auxiliary storage, in the main storage before switching the first auxiliary storage, which is working, to second auxiliary storage.

Referring to claims 10 and 11, the prior art does not teach or reasonably suggest a processing part to output, when a failure occurs, the information in said main storage among the information in said virtual-storage area to said auxiliary storage to which said information in said main storage is output when the utilization ratio of said main storage becomes high.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael C. Maskulinski whose telephone number is (571) 272-3649. The examiner can normally be reached on Monday-Friday 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert W. Beausoliel can be reached on (571) 272-3645. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2113

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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